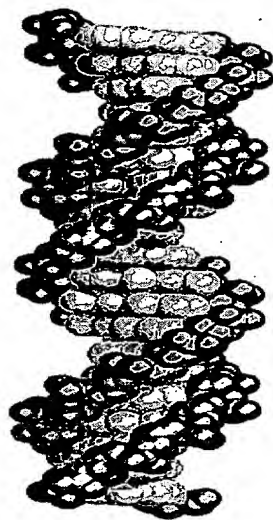


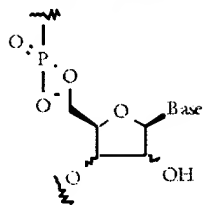
# FIGURE 1

## Structural Features of Pairing Component Systems

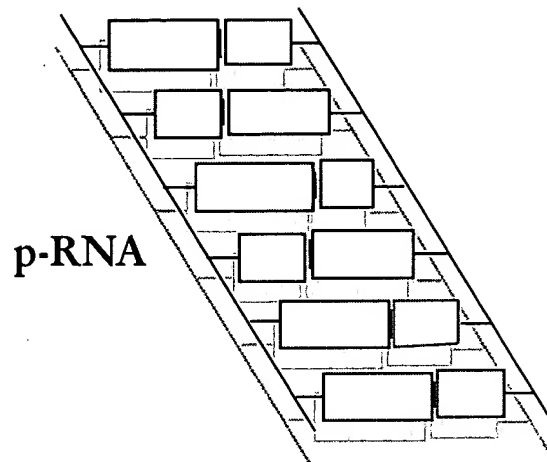


DNA

helical

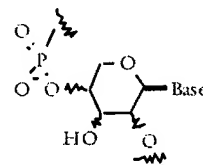


RNA unit



p-RNA

planar



p-RNA unit

FIGURE 2

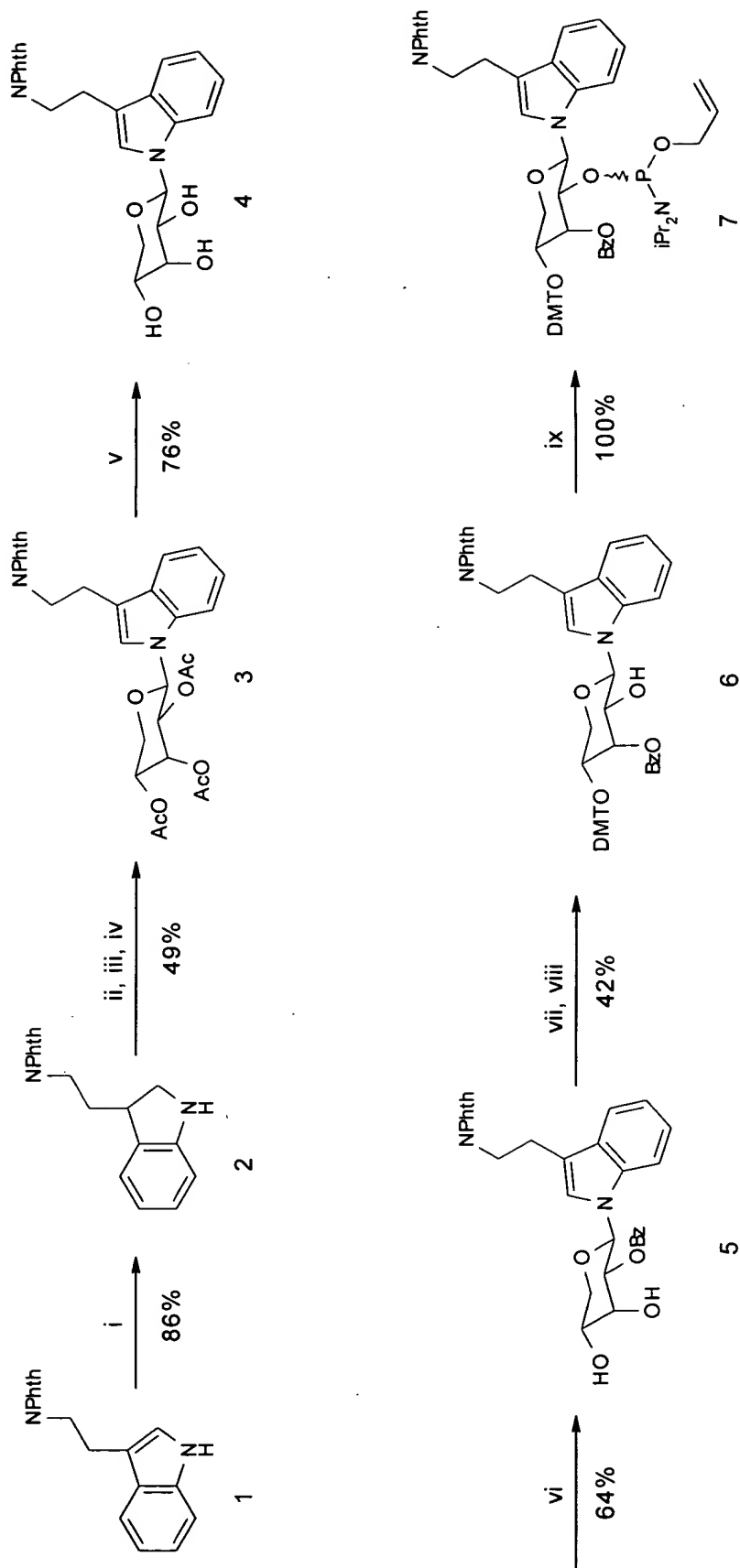
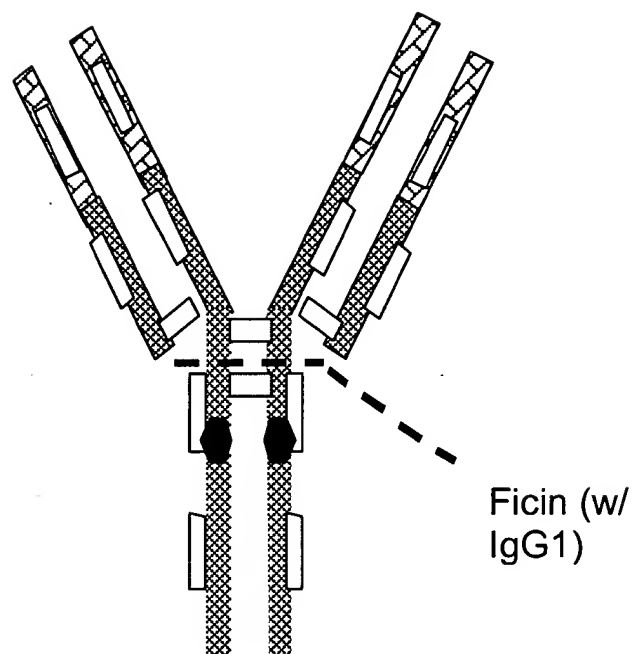
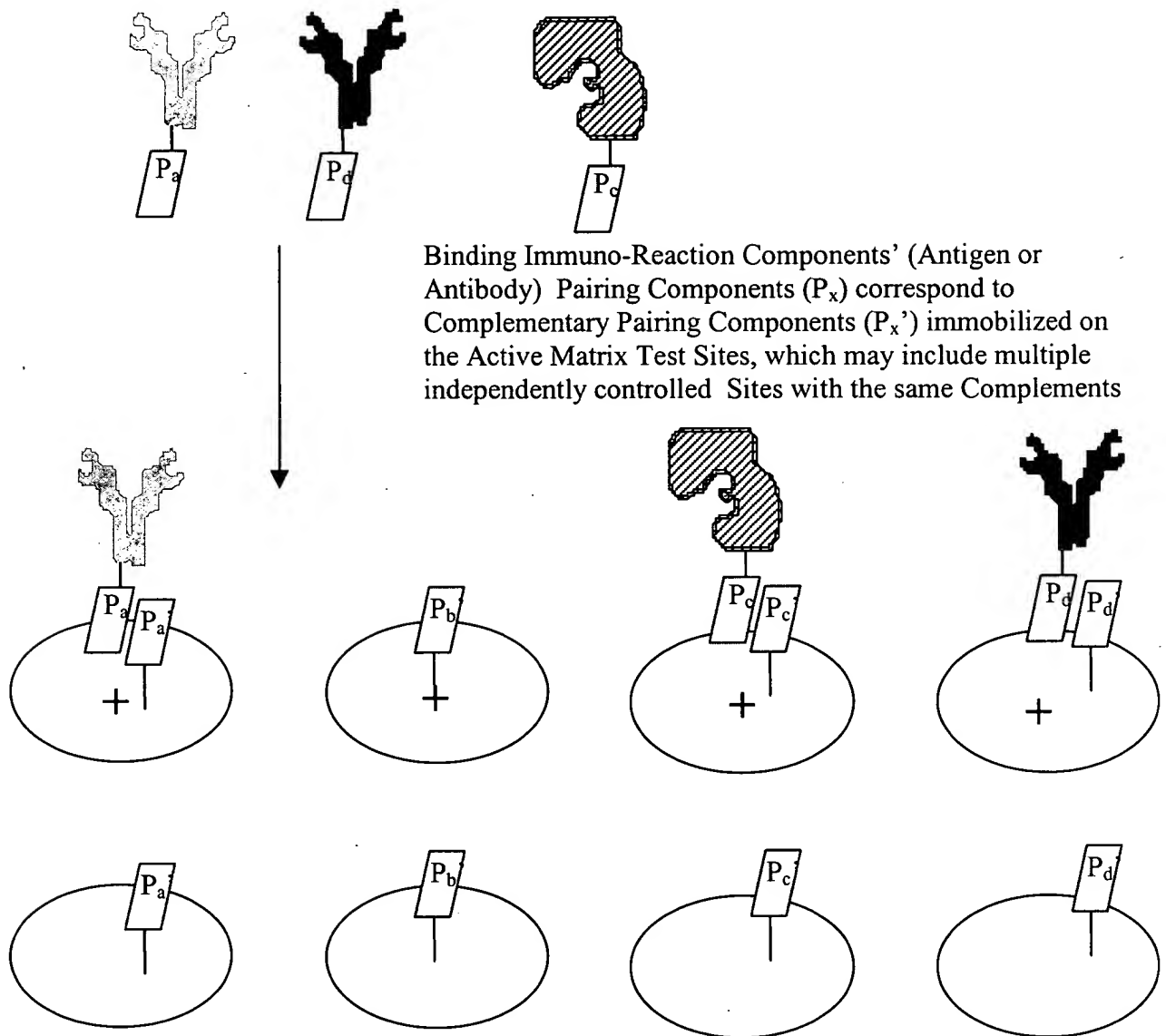


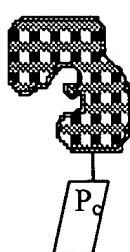
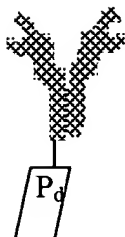
FIGURE 3



# FIGURE 4a



# FIGURE 4b



After a first set of Binding Immunological Reaction Components has been Electronically Addressed, a Second set may be Electronically Addressed using the same  $P_x$ 's

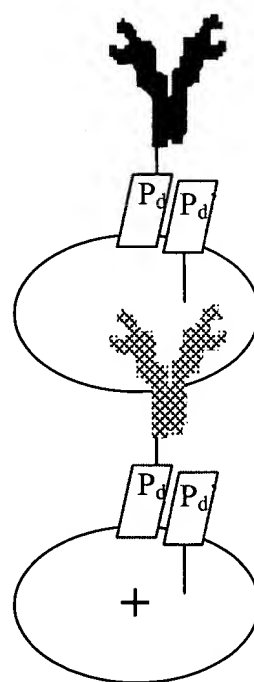
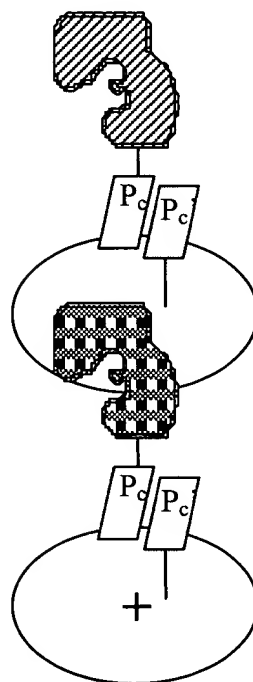
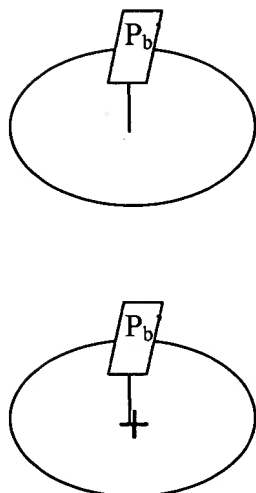
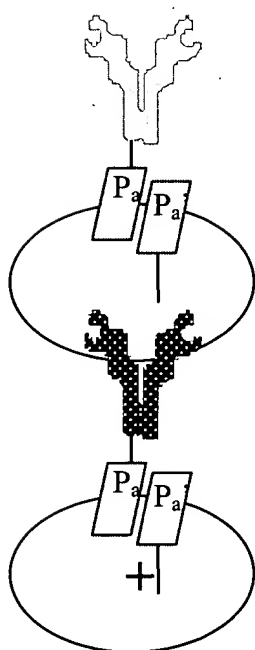
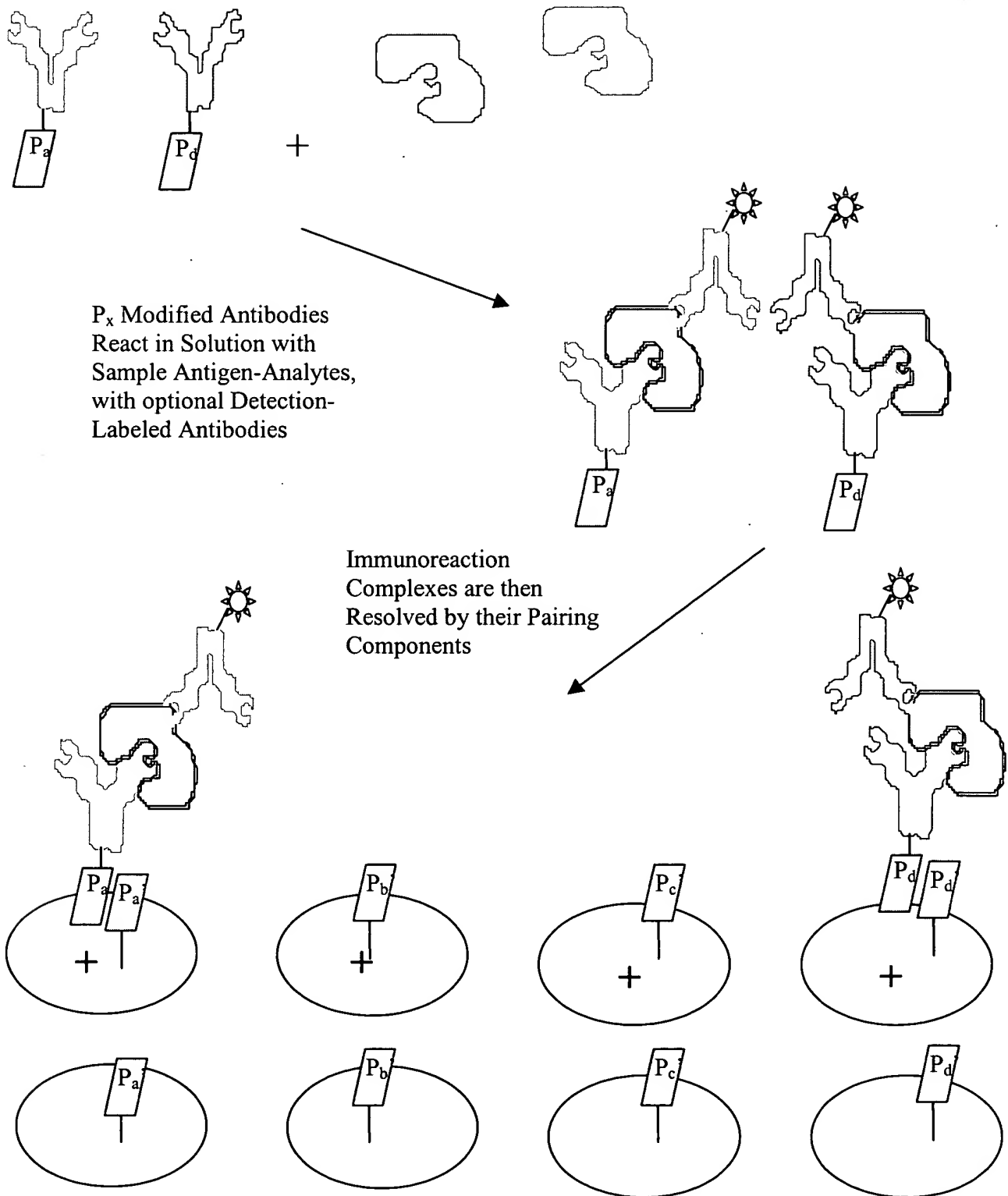


FIGURE 4b

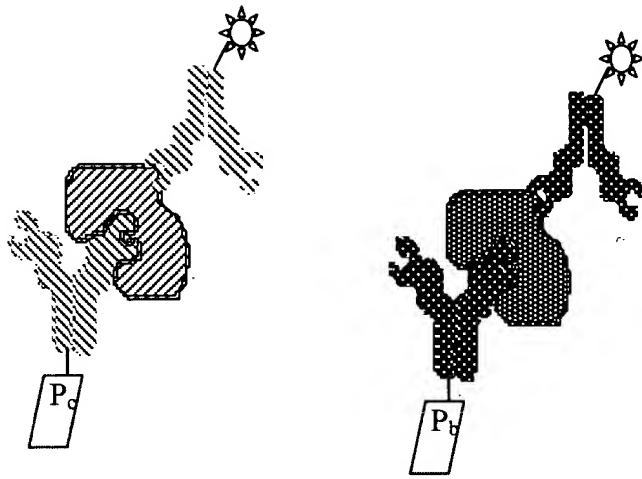
# FIGURE 5



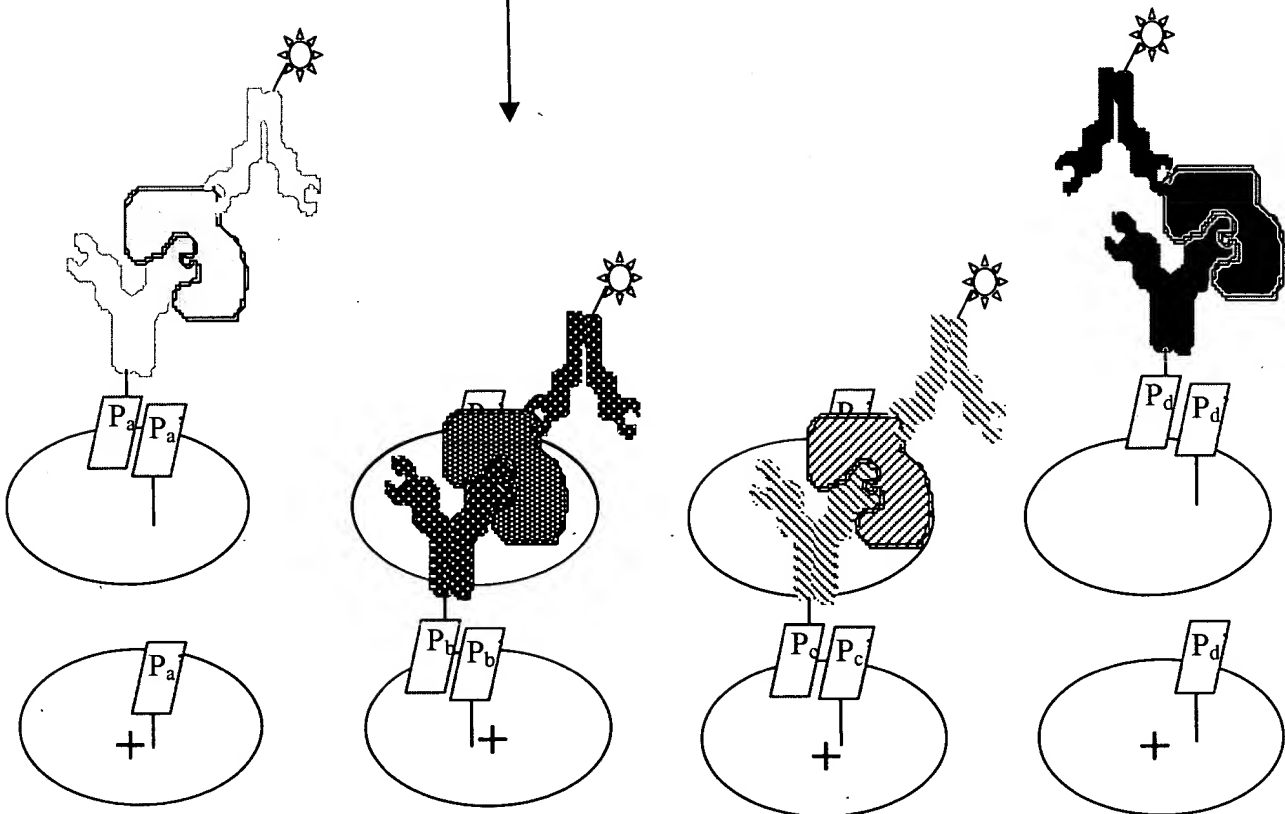
$P_x$  Modified Antibodies  
React in Solution with  
Sample Antigen-Analytes,  
with optional Detection-  
Labeled Antibodies

Immunoreaction  
Complexes are then  
Resolved by their Pairing  
Components

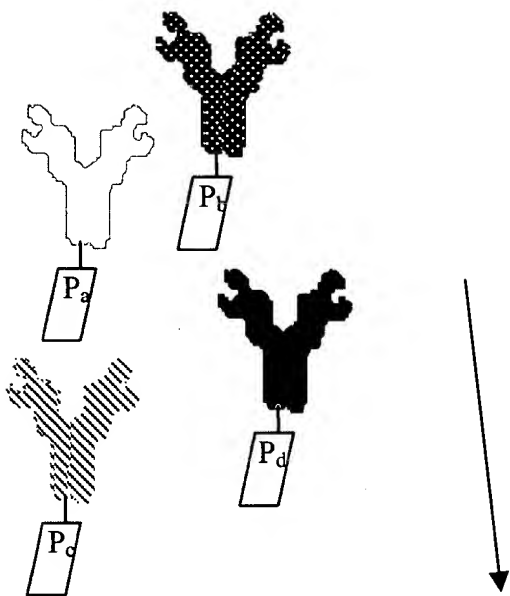
# FIGURE 6



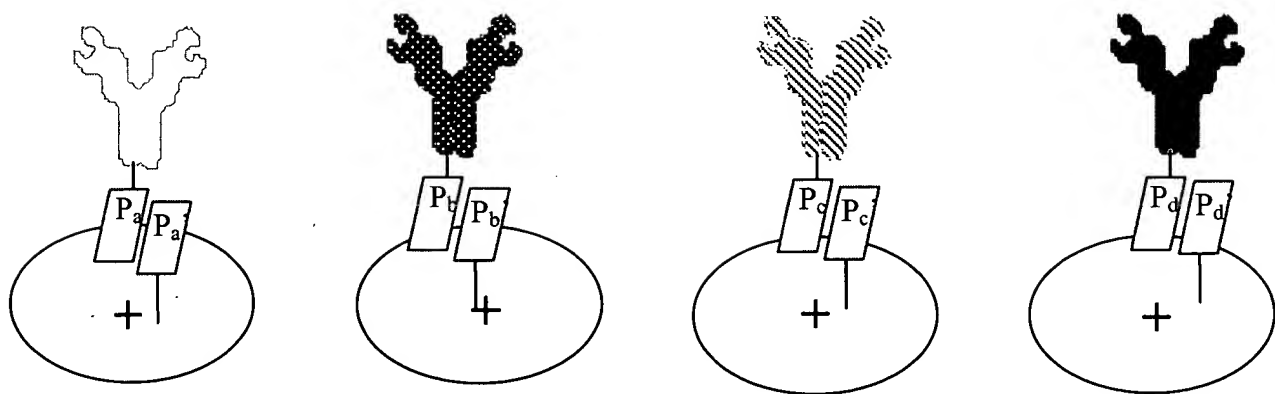
After the First Sample is resolved, a Second Sample Immunoreaction Mixture may be resolved on the same Active Matrix by activating another set of Test Sites



# FIGURE 7a



In an Alternative Assay Format,  
 $P_x$  Antibodies are first  
 electronically addressed to the  
 Test Sites of the Active Matrix





# FIGURE 7b

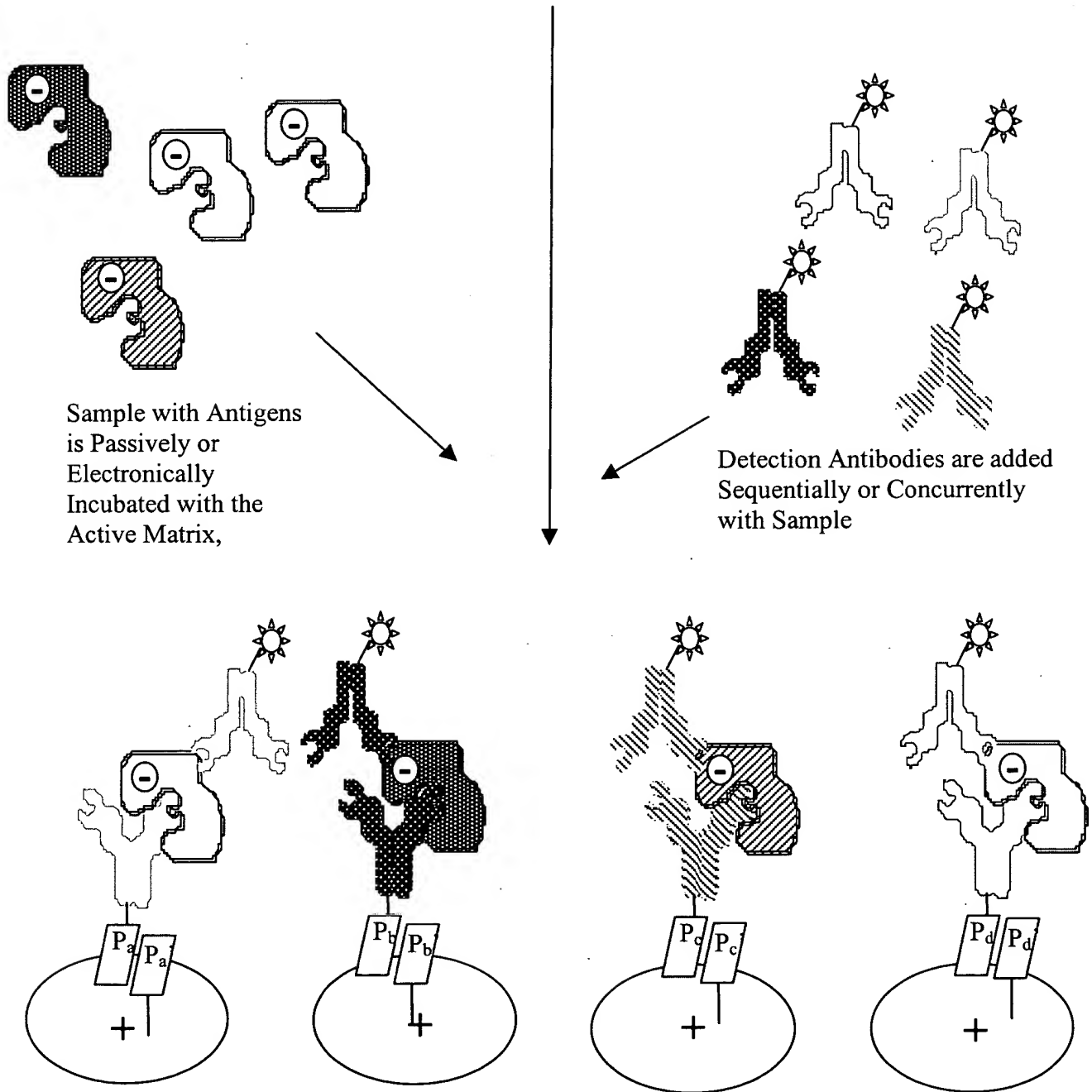


FIGURE 8a

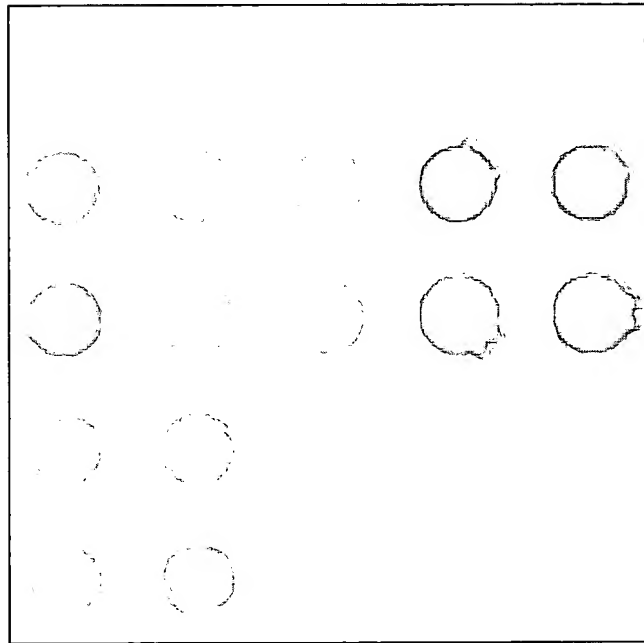
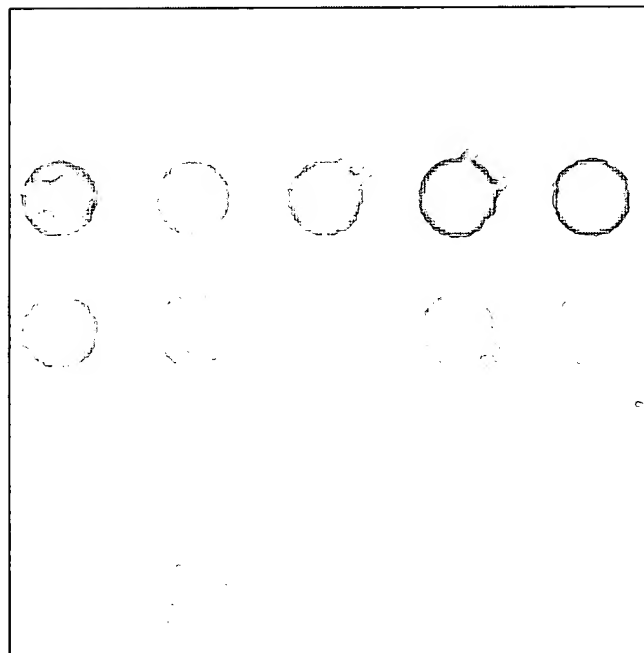


FIGURE 8b



# FIGURE 9

## Biacore Results: Sensograms

antibody-pRNA conjugates introduced to chip-bound complementary pRNAs

